a movement means for moving said transparent cylinder and said light source and detector in a longitudinal axis relative to one another.

10. (Amended Twice) A spin cytometer, comprising:

a rotating means adapted to rotate a transparent cylinder about a longitudinal axis of the transparent cylinder;

a light source adapted to illuminate at least a portion of the transparent cylinder while the transparent cylinder is being rotated by the rotating means;

a detector means for detecting a light signal generated by the light source and reflected from the transparent cylinder while the transparent cylinder is being rotated by the rotating means;

determining means for determining at least one cytometric characteristic of a sample disposed in said transparent cylinder based on said detected light signal; and

a movement means for moving the transparent cylinder and the light source and detector means in relative motion.

19. The spin cytometer of claim 18, wherein the organic photoreceptor material is activated by a wave length of approximately 300 nanometers to approximately 800 nanometers.

23. The spin cytometer of claim 22, wherein the light emitting diode is adapted to emit a light having a wavelength of between approximately 300 nanometers and 800 nanometers.